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<u>L16</u>	bonnefoy-jean-yves.in.	24	<u>L16</u>
<u>L15</u>	bonnefoy-jean-yves.in.	0	<u>L15</u>
<u>L14</u>	jean-yves-bonnefoy.in.	0	<u>L14</u>
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<u>L12</u>	L11 and antibody	1	<u>L12</u>
<u>L11</u>	L10 and antibody	1	<u>L11</u>
<u>L10</u>	6911530.pn.	1	<u>L10</u>
<u>L9</u>	L8 and antibody	1	<u>L9</u>
<u>L8</u>	5453491.pn.	1	<u>L8</u>
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<u>L6</u>	il13 wsame il4	0	<u>L6</u>
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☐ 1: [Kunwar S.](#)

Related Articles, Links



Convection enhanced delivery of IL13-PE38QQR for treatment of recurrent malignant glioma: presentation of interim findings from ongoing phase 1 studies.

Acta Neurochir Suppl. 2003;88:105-11.

PMID: 14531568 [PubMed - indexed for MEDLINE]

☐ 2: [Johnson TR, Parker RA, Johnson JE, Graham BS.](#)

Related Articles, Links



IL-13 is sufficient for respiratory syncytial virus G glycoprotein-induced eosinophilia after respiratory syncytial virus challenge.

J Immunol. 2003 Feb 15;170(4):2037-45.

PMID: 12574374 [PubMed - indexed for MEDLINE]

☐ 3: [Salter DM, Millward-Sadler SJ, Nuki G, Wright MO.](#)

Related Articles, Links



Differential responses of chondrocytes from normal and osteoarthritic human articular cartilage to mechanical stimulation.

Biorheology. 2002;39(1-2):97-108.

PMID: 12082272 [PubMed - indexed for MEDLINE]

☐ 4: [Wang J, Tung YC, Wang Y, Li XT, Iqbal K, Grundke-Iqbal I.](#)

Related Articles, Links



Hyperphosphorylation and accumulation of neurofilament proteins in Alzheimer disease brain and in okadaic acid-treated SY5Y cells.

FEBS Lett. 2001 Oct 19;507(1):81-7.

PMID: 11682063 [PubMed - indexed for MEDLINE]

☐ 5: [Tan LC, Mowat AG, Fazou C, Rostron T, Roskell H, Dunbar PR, Tournay C, Romagne F, Peyrat MA, Houssaint E, Bonneville M, Rickinson AB, McMichael AJ, Callan MF.](#)

Related Articles, Links



Specificity of T cells in synovial fluid: high frequencies of CD8(+) T cells that are specific for certain viral epitopes.

Arthritis Res. 2000;2(2):154-64. Epub 2000 Feb 7.

PMID: 11062606 [PubMed - indexed for MEDLINE]

☐ 6: [Yung LY, Colman RW, Cooper SL.](#)

Related Articles, Links




Neutrophil adhesion on polyurethanes preadsorbed with high molecular weight kininogen.


Blood. 1999 Oct 15;94(8):2716-24.

PMID: 10515875 [PubMed - indexed for MEDLINE]


☐ **7:** [Debinski W, Gibo DM, Slagle B, Powers SK, Gillespie GY.](#) [Related Articles, Links](#)

 Receptor for interleukin 13 is abundantly and specifically over-expressed in patients with glioblastoma multiforme.  
Int J Oncol. 1999 Sep;15(3):481-6.  
PMID: 10427128 [PubMed - indexed for MEDLINE]


☐ **8:** [Poudrier J, Graber P, Herren S, Gretener D, Elson G, Berney C, Gauchat JF, Kosco-Vilbois MH.](#) [Related Articles, Links](#)

 A soluble form of IL-13 receptor alpha 1 promotes IgG2a and IgG2b production by murine germinal center B cells.  
J Immunol. 1999 Aug 1;163(3):1153-61.  
PMID: 10415009 [PubMed - indexed for MEDLINE]


☐ **9:** [Chomarat P, Banchereau J.](#) [Related Articles, Links](#)

 Interleukin-4 and interleukin-13: their similarities and discrepancies.  
Int Rev Immunol. 1998;17(1-4):1-52. Review.  
PMID: 9914942 [PubMed - indexed for MEDLINE]


☐ **10:** [Christman CW, Salvant JB Jr, Walker SA, Povlishock JT.](#) [Related Articles, Links](#)

 Characterization of a prolonged regenerative attempt by diffusely injured axons following traumatic brain injury in adult cat: a light and electron microscopic immunocytochemical study.  
Acta Neuropathol (Berl). 1997 Oct;94(4):329-37.  
PMID: 9341933 [PubMed - indexed for MEDLINE]


☐ **11:** [Rolling C, Treton D, Pellegrini S, Galanaud P, Richard Y.](#) [Related Articles, Links](#)

 IL4 and IL13 receptors share the gamma c chain and activate STAT6, STAT3 and STAT5 proteins in normal human B cells.  
FEBS Lett. 1996 Sep 9;393(1):53-6.  
PMID: 8804422 [PubMed - indexed for MEDLINE]


☐ **12:** [Ma D, Descarries L, Julien JP, Doucet G.](#) [Related Articles, Links](#)





 Abnormal perikaryal accumulation of neurofilament light protein in the brain of mice transgenic for the human protein: sequence of postnatal development.  
Neuroscience. 1995 Sep;68(1):135-49.  
PMID: 7477919 [PubMed - indexed for MEDLINE]

☐ **13:** [Serra R, Carbonetto S, Lord M, Isom HC.](#) [Related Articles, Links](#)

 Transforming growth factor beta 1 suppresses transformation in hepatocytes by regulating alpha 1 beta 1 integrin expression.  
Cell Growth Differ. 1994 May;5(5):509-17.  
PMID: 8049157 [PubMed - indexed for MEDLINE]

☐ **14:** [Christman CW, Grady MS, Walker SA, Holloway KL, Povlishock JT.](#) [Related Articles, Links](#)

 Ultrastructural studies of diffuse axonal injury in humans.  
J Neurotrauma. 1994 Apr;11(2):173-86.  
PMID: 7523685 [PubMed - indexed for MEDLINE]

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File: USPT

Jun 1, 2004

US-PAT-NO: 6743604

DOCUMENT-IDENTIFIER: US 6743604 B1

TITLE: Substances and their uses

DATE-ISSUED: June 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bonnefoy; Jean-Yves	Sant Julien-en-Genevois			FR
Gauchat; Jean-Fran.cedilla.ois	Geneva			CH

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Smithkline Beecham Corporation	Philadelphia	PA				02

APPL-NO: 09/545002   [PALM]

DATE FILED: April 6, 2000

## PARENT-CASE:

This application is a divisional of application Ser. No. 08/969,125, filed Nov. 12, 1997, now U.S. Pat. No. 6,143,871, the entire content of which is hereby incorporated by reference in this application.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9625899	December 13, 1996

INT-CL-ISSUED: [07] C07H 21/04, C12N 15/12, C12N 15/24, C12N 15/63

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	<u>C07 K 14/435</u>	20060101
CIPS	<u>C07 K 14/715</u>	20060101
CIPN	<u>A61 K 38/00</u>	20060101

US-CL-ISSUED: 435/69.52; 435/69.1, 435/7.1, 435/172.3, 435/235.1, 435/325, 435/320.1, 435/69.7, 530/300, 530/351, 536/23.1, 536/23.5, 536/23.4, 536/24.3

US-CL-CURRENT: 435/69.52; 435/235.1, 435/320.1, 435/325, 435/69.1, 435/69.7, 435/7.1, 530/300, 530/351, 536/23.1, 536/23.4, 536/23.5, 536/24.3

FIELD-OF-CLASSIFICATION-SEARCH: 435/69.1, 435/7.1, 435/172.3, 435/235.1, 435/325, 435/320.1, 435/69.52, 435/69.7, 530/350, 530/351, 536/23.1, 536/23.5, 536/23.4, 536/24.3

See application file for complete search history.

PRIOR-ART-DISCLOSED:

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
WO 97/20926	June 1997	WO	
WO 97/31946	September 1997	WO	

OTHER PUBLICATIONS

Hilton, D.J. et al., cloning and characterization of binding subunit of the interleukin 13 receptor that is also a component of the interleukin receptor, Proc. Natl. Acad. Sci. U.S.A., vol. 93, pp. 497-501, 1996.\*

Aman, M. J. et al., cDNA cloning and characterization of human interleukin 13 receptor alpha chain, J. Biol. Chem., vol. 271, No. 46, pp. 29265-29270, 1996.\*

Caput et al, "Cloning and Characterization of a Specific Interleukin (IL)-13 Binding Protein Structurally Related to the IL-5 Receptor .alpha. Chain", The Journal of Biological Chemistry 271(28):16921-16926 (1996).

Minty et al, "Interleukin-13 is a new human lymphokine regulating inflammatory and immune responses", Nature 362:248-250 (1993).

Aman et al, "cDNA Cloning and Characterization of the Human Interleukin 13 Receptor .alpha.Chain", The Journal of Biological Chemistry, 271(46):29265-29270 (1996).

Hilton et al, "Cloning and characterization of a binding subunit of the interleukin 13 receptor that is also a component of the interleukin 4 receptor", Proc. Natl. Acad. Sci. USA 93:497-501 (1996).

Callard et al, "IL-4 and IL-13 receptors: are they one and the same?", Immunology Today 17(3):108-110 (1996).

George et al, Current Methods in Sequence Comparison and Analysis, selected methods and applications. Edited by David H. Schlesinger, Alan R. Liss, Inc., New York, pp. 124-129 (1998).

Ngo et al, Computational complexity, protein structure prediction, and the levinthal paradox., The Protein folding problem and Tertiary structure prediction, K. Merz, Jr. and S. Le Grand, editors, Birkhause Boston, pp. 491-495 (1995).

Bowie et al, Deciphering the message in Protein sequences: Tolerance to Amino Acid Substitutions, Science 247:1306-1310 (1990).

Wells et al, "Additivity to mutational effects in proteins", Biochemistry, pp. 8509-8579 (1990).

ART-UNIT: 1646

PRIMARY-EXAMINER: Eyler; Yvonne

ASSISTANT-EXAMINER: Basi; Nirmal S.

ATTY-AGENT-FIRM: Nixon & Vanderhye P.C.

ABSTRACT:

Polypeptides capable of binding human IL-13 and/or of binding human IL-4 in the presence of IL-4 R.alpha. can be used in medicine, in diagnosis and in screening for agonists/antagonists of IL-13/IL-4. One such polypeptide is shown in FIG. 1.



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File: USPT

Jun 1, 2004

US-PAT-NO: 6743604

DOCUMENT-IDENTIFIER: US 6743604 B1

TITLE: Substances and their uses

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bonnefoy, Jean-Yves	Sant Julien-en-Genevois				FR
Gauchat, Jean-Fran.cedilla.ois	Geneva				CH

US-CL-CURRENT: 435/69.52; 435/235.1, 435/320.1, 435/325, 435/69.1, 435/69.7,  
435/7.1, 530/300, 530/351, 536/23.1, 536/23.4, 536/23.5, 536/24.3

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File: USPT

Nov 7, 2000

US-PAT-NO: 6143871

DOCUMENT-IDENTIFIER: US 6143871 A

**\*\* See image for Certificate of Correction \*\***

TITLE: IL-13 and IL-4 binding polypeptides

DATE-ISSUED: November 7, 2000

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bonnefoy; Jean-Yves	74164 Sant Julien-en-Genevois Cedex				FR
Gauchat; Jean- Fran.cedilla.ois					

US-CL-CURRENT: 530/351; 314/2, 435/69.1, 435/7.1, 530/300, 530/350, 536/23.1,  
536/23.5

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TITLE: IL-13 and IL-4 binding polypeptides

DATE-ISSUED: November 7, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bonnefoy; Jean-Yves	74164 Sant Julien-en-Genevois Cedex				FR
Gauchat; Jean- Fran.cedilla.ois					

APPL-NO: 08/969125 [PALM]

DATE FILED: November 12, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9625899	December 13, 1996

INT-CL-ISSUED: [07] C07K 14/00, A61K 38/02, A61K 38/17, C07H 21/04

## INT-CL-CURRENT:

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CIPS	<u>C07 K 14/435</u>	20060101
CIPS	<u>C07 K 14/715</u>	20060101
CIPN	<u>A61 K 38/00</u>	20060101

US-CL-ISSUED: 530/351; 530/350, 530/300, 536/23.5, 536/23.1, 435/7.1, 435/69.1, 314/2

US-CL-CURRENT: 530/351; 314/2, 435/69.1, 435/7.1, 530/300, 530/350, 536/23.1, 536/23.5

FIELD-OF-CLASSIFICATION-SEARCH: 530/350, 530/351, 530/300, 536/23.5, 536/23.1, 514/2, 930/140-145, 435/7.1, 435/69.1, 435/172.1

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## PRIOR-ART-DISCLOSED:

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WO 97/20926	June 1997	WO	
WO 97/31946	September 1997	WO	

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George et al., Current Methods in Sequence Comparison and Analysis, selected methods and applications. Edited by David H. Schlesinger, Alan R. Liss, Inc., New York, pp. 124-129, 1988.

Ngo, J. T. et al Computational complexity, protein structure prediction, and the levinthal paradox., The Protein folding problem and Tertiary structure prediction, K. Merz, Jr. And S. Le Grand, editors, Birkhauser Boston., pp. 491-495, 1995.

Bowie et al., Deciphering the message in Protein sequences: Tolerance to Amino Acid Substitutions. Science, vol. 247, pp. 1306-1310, 1990.

Wells, J. A et al., Additivity of mutational effects in proteins, Biochemistry, pp. 8509-8579, 1990.

Caput et al, "Cloning and Characterization of a Specific Interleukin (IL)-13 Binding Protein Structurally Related to the IL-5 Receptor .alpha. Chain", The Journal of Biological Chemistry 271(28):16921-16926 (1996).

Minty et al, "Interleukin-13 is a new human lymphokine regulating inflammatory and immune responses", Nature 362:248-250 (1993).

Aman et al, "cDNA Cloning and Characterization of the Human Interleukin 13 Receptor .alpha. Chain", The Journal of Biological Chemistry, 271(46):29265-29270 (1996).

Hilton et al, "Cloning and characterization of a binding subunit of the interleukin 13 receptor that is also a component of the interleukin 4 receptor", Proc. Natl. Acad. Sci. USA 93:497-501 (1996).

Callard et al, "IL-4 and IL-13 receptors: are they one and the same?", Immunology Today 17(3):108-110 (1996).

ART-UNIT: 166

PRIMARY-EXAMINER: Kemmerer; Elizabeth

ASSISTANT-EXAMINER: Basi; Nirmaz S.

ATTY-AGENT-FIRM: Nixon & Vanderhye P.C.

## ABSTRACT:

Polypeptides capable of binding human IL-13 and/or of binding human IL-4 in the presence of IL-4 R.alpha. can be used in medicine, in diagnosis and in screening for agonists/antagonists of IL-13/IL-4. One such polypeptide is shown in FIG. 1.

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File: USPT

Jun 28, 2005

US-PAT-NO: 6911530

DOCUMENT-IDENTIFIER: US 6911530 B1

TITLE: Haemopoietin receptor and genetic sequences encoding same

DATE-ISSUED: June 28, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Willson; Tracy	North Balwyn			AU
Nicola; Nicos A.	Mont Albert			AU
Hilton; Douglas J.	Warrandyte			AU
Metcalf; Donald	Balwyn			AU
Zhang; Jian Guo	Hoppers Crossing			AU

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Amrad Operations, Pty., Ltd.	Richmond			AU	03

APPL-NO: 09/688286 [PALM]

DATE FILED: October 13, 2000

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS The present application is a divisional of application Ser. No. 09/051,843 filed Oct. 23, 1996 which is a 371 of PCT/AU96/00668 filed Oct. 23, 1998.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
AU	PN-6135	October 23, 1995
AU	PN-7276	December 22, 1995
AU	PO-2208	September 9, 1996

INT-CL-ISSUED: [07] C07K 16/00, C07K 14/00, A61K 39/395, C07N 15/11

## INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>C07 K 14/435</u>	20060101
CIPS <u>C07 K 14/715</u>	20060101
CIPN <u>A61 K 38/00</u>	20060101

US-CL-ISSUED: 530/387.1; 580/388.1, 580/388.15, 580/388.27, 580/387.9, 580/300,

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See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5508164</u>	April 1996	Kausch et al.	
<input type="checkbox"/> <u>5574136</u>	November 1996	Nagata et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
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WO97/20926	June 1997	WO	

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ART-UNIT: 1646

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ASSISTANT-EXAMINER: Basi; Nirmal S.

ATTY-AGENT-FIRM: Scully, Scott, Murphy & Presser

ABSTRACT:

The present invention relates generally to a novel haemopoietin receptor or components or part thereof and to genetic sequences encoding same. The receptor molecules and their components and/or parts and the genetic sequences encoding same of the present invention are useful in the development of a wide range of agonists, antagonists, therapeutics and diagnostic reagents based on ligand interaction with its receptor.

15 Claims, 30 Drawing figures

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